

### ABSTRACT

A compacting broach comprises an elongate body and a distal tip at a forward end of the body. The body plurality of corner edges corresponding to the corner edges of a prosthetic component, cutting teeth along the corner edges and side walls between the cutting teeth of adjacent corner edges. The side walls extend inwardly from the cutting teeth of adjacent corner edges and compact cancellous bone as the cutting teeth penetrate cortical bone during advancement of the broach in the intramedullary canal. The distal tip comprises a plurality of fins radial to a central longitudinal axis of the broach and extending longitudinally, distally from the body. The fins contact the side of the canal at locations about a central axis of the canal to center the broach in the canal prior to the cutting teeth engaging cortical bone as the broach is advanced therein.